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DATE MAILED: 10/30/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

26646 7590 10/30/2009

KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004

EXAMINER			
YEE, I	EBORAH		
ART UNIT	PAPER NUMBER		
1202	•		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,628	06/23/2005	Tatsuo Yokoi	52433/801	6709

TITLE OF INVENTION: HIGH STRENGTH STEEL SHEET EXHIBITING GOOD BURRING WORKABILITY AND EXCELLENT RESISTANCE TO SOFTENING IN HEAT-AFFECTED ZONE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	ders and notification a) specifying a new co	of m erresp	naintenance fees w pondence address;	ill be i and/or	nailed to the current (b) indicating a sepa	corres rate "	spondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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										(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/540,628	06/23/2005			Tatsuo Yokoi				52433/801		6709
TITLE OF INVENTION SOFTENING IN HEAT-	AFFECTED ZONE								NCE	
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO		\$1510	\$300		\$0		\$1810		02/01/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS	\neg					
YEE, DE	BORAH		1793	I48-320000	_					
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOVSB/122) attached. "Fee Address" indication for "Fee Address" indication form PTOVSB/12; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			Correspondence	(I) the names of u or agents OR, alteri (2) the name of a s registered attorney	of a single firm (having as a member a riney or agent) and the names of up to thent attorneys or agents. If no name is					
(A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comj BNEE	ified booletion	elow, no assignee of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (C	e pa an a	ntent. If an assigna assignment. and STATE OR C	OUNT			
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	SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no						
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	d from anyone other the Office.	an th	ne applicant; a regis	stered a	ttorney or agent; or th	e assig	gnee or other party in
Authorized Signature						Date				
Typed or printed name Registration No										
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT den, sl NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or re esti idivi fice S TO	etain a benefit by the imated to take 12 n idual case. Any co r, U.S. Patent and O'THIS ADDRESS	he publ ninutes mment: Tradem	ic which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depo O TO: Commissioner	by th g gath ne you rtmen or Pat	e USPTO to process) ering, preparing, and require to complete t of Commerce, P.O. tents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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26646 75	90 10/30/2009		EXAM	UNER	
KENYON & KE	NYON LLP		YEE, DE	BORAH	
ONE BROADWA			ART UNIT	PAPER NUMBER	
NEW YORK, NY	10004		1793		
			DATE MAIL ED: 10/30/200	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 163 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 163 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/540,628	YOKOI ET AL.	
Examiner	Art Unit	
Dehorah Vae	1703	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 133 and MPEP 1308.

- 1.

 ☐ This communication is responsive to RCE and amendment filed 9/22/09.
- The allowed claim(s) is/are 1,3,4 and 10.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - - 1. \(\subseteq \text{ Certified copies of the priority documents have been received.} \)
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 9/22/09
 4. ☐ Examiner's Comment Regarding Requirement for Deposit
 - Examiner's Comment Regarding Requirement for Deposi of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🗌 Other ___

Primary Examiner Art Unit: 1793

/Deborah Yee /

Application/Control Number: 10/540,628 Page 2

Art Unit: 1793

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 22, 2009 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Weining Wang on October 22, 2009.

The application has been amended as follows:

In claim 1, second to last line at end of claim, "welded" has been deleted.

In claim 10, ---Nb: 0.01 to 0.5%-- has been inserted after "Ti: 0.05 to 0.5%".

In Claim 10. --- +12/93Nb --- has been inserted in equation after "12/48Ti"

- 3. Claims 1, 3, 4 and 10 are allowable over the art of record.
- The following is an examiner's statement of reasons for allowance: The art of record does not teach or suggest a hot rolled steel sheet as recited by claims 1, 3, 4,

Application/Control Number: 10/540,628

Art Unit: 1793

and 10 having a defined composition with a microstructure composed of only bainitic ferrite and bainite and satisfying the equation C-(12/48Ti + 12/93Nb – 12/14N-12/32S) = >0 to 0.05 so that an effective amount of solid solution C is present in said hot rolled steel sheet to form carbon clusters or precipitates with Mo and Cr to achieve excellent softening resistance of the weld heat affect zone when welded.

5. Present invention patentably distinguishes over applied reference, Japanese patent 408157957 (hereafter JP-957"), because objective and compositional parameters are different. Applicant's invention is directed to a high burring, high strength steel wherein an effective amount of C remains present in solid solution such that carbon clusters or precipitates with Mo and Cr can form to achieve excellent softening resistance at the weld heat affect zone when welded. In contrast JP-957 in paragraphs [0012]-[0015] is directed to hot rolled steel plate excellent in stretch flange workability with no concern for welding properties, and avoids dissolved (equivalent solid solution) carbides because it degrades elongation flanging properties.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

Art Unit: 1793

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793

/DY/